

The coolest periods were on the 1st in portions of the central valleys, but mainly during the last decade over the remaining portions of the country. Readings below freezing were reported in all the northern border states. The lowest observed was 14° in the mountains of Oregon.

PRECIPITATION

August was, for most of the country, one more dry month in a year in which, up to date, months of well distributed and ample rainfall have been few.

The regions west of the Rocky Mountain Divide had usually more rainfall than normal, with comparatively good distribution, although amounts were especially large for the region in a few localities, causing damage by flood. The northern part of the eastern slope of the Rockies was well watered, likewise much of the southern Plains and of the middle Mississippi Valley.

The Plains from central Nebraska northward had a considerable shortage as had most of Oklahoma and central and eastern Texas, while nearly all the eastern half of the country had a decided deficiency.

The drought in August was remarkably severe in the southern Appalachian region, including the western portions of the Carolinas, the eastern two-thirds of Tennessee, and the northern two-thirds of Georgia. In this region July had been comparatively dry, and remarkably so in western North Carolina. As a result the most serious drought within the memory of old people prevailed widely as August ended, many deep wells having failed, small streams being dry where never so known before, rivers being at extremely low stages, and hydroelectric service greatly restricted.

The average rainfall at points in Alabama was the least for August since the weather service was organized, more than 50 years ago. The shortage was well marked throughout the lower Mississippi Valley, and thence north to southwestern Missouri, also northeast to western Pennsylvania.

In Minnesota and northwestern Iowa and thence eastward to include northern Michigan, except the immediate

shore of Lake Superior, there was likewise remarkably little precipitation and forest fires were unusually troublesome for August. In nearly all of New York and New England August was a remarkably dry month, but here July had generally brought ample rain, save in Maine, so usually conditions were not unfavorable. From southern Massachusetts to northern Florida the majority of the coast districts had considerable rain, though almost nowhere as much as normal.

The one eastern district of marked excess was in the Florida Peninsula, where numerous stations had twice their usual large August falls, one station in Dade County recording 17.56 inches.

The year 1925 to date has been marked by prolonged dryness over practically all the Gulf States and large areas to the northeast. In Texas every month of 1925 to date has averaged drier than normal and from Louisiana to Alabama and the eastern portions of Tennessee, northern Georgia, and the western portions of the Carolinas and Virginia every month except January. Likewise toward the northeast as far as the southern lake region each state shows six or seven months out of the eight from January to August, inclusive, deficient in precipitation.

In Arkansas and Tennessee the average deficiency for each State for the eight-month period is about 13 inches, and in Louisiana, Mississippi and Alabama over 10 inches, while over the western third of North Carolina it is almost 18 inches.

RELATIVE HUMIDITY

The percentages of relative humidity were less than normal over nearly all portions of the country from the Great Plains eastward, the principal exceptions being locally over a narrow area from the lower Mississippi Valley northeastward to the Great Lakes. From central Texas and the southern Plains eastward to the Atlantic Coast it ranged from 15 to nearly 30 per cent less than normal.

SEVERE LOCAL HAIL AND WIND STORMS, AUGUST, 1925

The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path, yards ¹	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Fleming, Colo. (near)	1	P. m.				Hail and wind	Trees, fences and several barns blown down; some crop damage.	Official, U. S. Weather Bureau.
Dallas County, Iowa	2					Hail	Character of damage not reported.	Do.
Beaver County, Okla.	3		4 mi.			Destructive hail	Heavy loss of crops; residences and other buildings damaged; poultry and cattle killed. Path 8 miles long.	Do.
Clark, Fayette and Bourbon Counties, Ky.	3				\$125,000	Hail	About 300 acres of tobacco destroyed and corn damaged.	Do.
Berlin, N. H.	3	12.45-1.20 p.m.	2 mi.		15,000	Severe hail	Crops and windows badly damaged.	Do.
Detroit, Mich.	3					Violent hail, rain and thunderstorm.	Streets and basements flooded in some places to a depth of 18 inches.	Indianapolis Star.
Indianapolis, Ind.	3	3.33-5.55 p. m.				Thunderstorm and hail.	Traffic demoralized for more than an hour; foliage shredded; 1 person injured.	Official, U. S. Weather Bureau; Indianapolis Star.
Tampa, Fla. (west of)	3	5.25-8 p. m.				Violent thunderstorm.	No damage reported.	Official, U. S. Weather Bureau.
Greensburg, Pa.	3	9 p. m.				Thunderstorm	Building excavation flooded; other minor damage.	Do.
Lincoln County, Wis.	4	11 a. m.-2 p. m.	3 mi.		50,000	Heavy hail	Growing crops badly damaged.	Do.
Humboldt County, Iowa	4	3.30 p. m.	2 mi.			Hail	Corn damaged 80 per cent in places.	Do.
Sarasota Beach, Fla.	4	5 p. m.				Small tornado.	Two portable houses and a garage leveled; other minor damage.	Do.
Pittsfield, Wis.	4	5 p. m.	880		75,000	Heavy hail	Damage principally to growing crops.	Official, U. S. Weather Bureau.
Mower County, Minn. (central part of)	4	P. m.				Hail	Much damage to corn stripped by hail.	Pioneer Press (Minneapolis, Minn.).
Raleigh, N. C., and vicinity.	4					Thunderstorm and high wind.	Telephone poles, chimney, and buildings of light construction damaged. Crops and fruit suffer from high wind.	Official, U. S. Weather Bureau.

¹ "Ml." signifies miles, instead of yards.

Severe local hail and wind storms, August, 1925—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Fowler, Colo.	5		1,780		\$4,000	Hail	Vine crop and corn damaged	Official, U. S. Weather Bureau.
Hocking County, Ohio	5		880		15,000	do.	Severe crop and property damage over path 10 miles long.	Do.
Moore's Hill, Ind.	5					Heavy hail	Corn and tobacco considerably injured	Do.
Williamstown, Ky.	5					Hail	Local crops damaged	Do.
Watertown, N. Y.	5	1.10 p. m.	1,760		10,000	Heavy hail	Corn, oats, and potatoes injured	Do.
Pontiac, Ill. (near)	7	4 p. m.				Hail	Character and amount of damage not reported	Do.
Dauphin County, Pa.	8					Series of violent thunderstorms.	Considerable damage by flooding	Do.
Mechanicsville, Md. (near)	8					Thundergusts	Trees uprooted; tobacco and corn blown down	Do.
Roland, Iowa	8	P. m.				Hail	Corn damaged	Do.
Washington County, Md.	8					Electrical	A barn destroyed and a cow killed near Smithsburg; water tower and house damaged in Hagerstown; 1,200 telephones out of commission.	Do.
Hardin County, Iowa	8	5 p. m.				Hail	Crop loss about 10 per cent.	Do.
Harrisburg, Pa.	8	5.37 p. m.				Thunderstorm and excessive rain.	Many cellars and store basement flooded	Do.
Altenwald, Pa. (near)	8	6.30 p. m.	1,320		13,000	Small tornado with heavy hail.	Crop damage estimated at \$10,000. Property damage small.	Do.
Rockwood, Calif.	9				50,000	Two tornadoes	Eighteen buildings lifted from foundations; five persons injured.	Morning Sun (Yuma, Ariz.).
Talbot County, Md.	9				6,000	Thundergusts	Boat house on Miles River damaged; tenant house and a barn at Oxford, and a canning house at Bozman destroyed. Much corn blown down.	Official, U. S. Weather Bureau.
Dodson, La. (near)	9	5-6 p. m.		1		Electrical	Several persons shocked and two houses set fire by lightning.	Do.
Henderson County, Ill.	9	4 p. m.			400,000	Hail	Damage principally to growing crops but some to roofs and windows.	Do.
San Joaquin Valley, Calif. (west side of).	10					Thunderstorm	Oil reservoir at Coalinga struck by lightning resulting in a loss estimated at more than a million and a half dollars.	Do.
Otsego and Delaware Counties, N. Y. (sections of).	10	P. m.				Rain, hail and wind.	Oats, corn and other crops flattened; one barn and contents valued at \$10,000 burned; farm buildings and trees damaged.	Oneonta Star (N. Y.).
Sharon Springs, N. Y.	10	2 p. m.	1,320		10,000	Heavy hail and wind	Buildings blown down, windows broken; large acreage of oats and buckwheat destroyed; some corn and gardens damaged; total loss of much fruit.	Official, U. S. Weather Bureau.
Charles County, Md. (between Lothair and Picowaxen Creek).	11	1-3 a. m.	1,760		16,000	Moderate hail and thunderstorm.	One house and two barns unroofed; much crop damage.	Do.
Jennings, Kans. (near)	11	3.30 p. m.	1,760		10,000	Violent wind and hail.	Several buildings damaged by wind; corn and field crops injured by hail.	Do.
Covington, Tenn. (near)	11			1		Wind	No property damage reported	Do.
Otero and Bent Counties, Colo.	12	5-6 p. m.	1-2 mi.		80,000	Hail	1,500 acres of cantaloupes and melons, and considerable acreage of sugar beets, cucumbers, corn and seed alfalfa destroyed; vines torn.	Do.
Terre Haute, Ind.	12	5.30 p. m.				Thunderstorm	Basements flooded in some sections, trees, signs, etc., blown down; electric service impaired.	Do.
Reno and Sedgwick Counties, Kans.	12	8-9 p. m.	5 mi.		500,000	Violent wind and hail.	Many buildings damaged; crops damaged about 50 per cent by stones some of which were 5 inches in diameter.	Do.
Lincoln and Taylorville, Ill. (near)	12					Electrical	Barns burned by lightning	Do.
Rush County, Kans.	12	P. m.	1-3 mi.			Violent wind and hail.	Farm buildings and crops damaged	Do.
Paris, Ill. (vicinity of)	12	do.				Wind, rain and hail.	Fields and basements flooded; corn prostrated	Chicago American.
Ardmore, Okla.	12	do.				Wind	Two persons injured and several residences damaged.	Official, U. S. Weather Bureau.
Denton, Tex.	13	4.30-6 p. m.			75,000	Heavy hail	Crops almost totally destroyed; considerable damage to trees, buildings and shrubs.	Do.
East Waco, Tex.	13	P. m.	100			Tornadoic wind	Houses unroofed; trees blown down; other minor damage.	Dallas Morning News, (Tex.).
Ferris, Tex., and vicinity	13					Electrical and rain	One barn damaged and one a total loss: two mules killed and one crippled; one person injured.	Do.
Gem and Twin Falls Counties, Idaho.	13					Hail	Heavy property and crop damage; poultry killed. Total amount of damage unestimated but there was \$40,000 to \$50,000 damage 3 miles south of Emmett.	Official, U. S. Weather Bureau.
Atlanta, Ga.	14	2.38 p. m.			1,000	Wind	Poles prostrated; plate glass windows broken	Do.
Jacksonville, Fla.	14					Thunderstorm and wind.	Two persons injured, one seriously. No property damage reported.	Do.
Nashville, Tenn.	14					Thunderstorm	Many telephones out of use; street car service impaired.	Do.
Nashville and Louisburg, N. C.	14	P. m.			50,000	Heavy hail	Crops damaged	Do.
Raleigh, N. C.	14					Thunderstorm and wind.	Trees broken and power and light service interrupted.	Do.
Seguin, Kans.	14	P. m.				Small tornado	One church and several barns demolished; many cattle and other stock killed by lightning.	Official, U. S. Weather Bureau; Kansas City Star.
Uniontown, Ala., and vicinity.	14		1,760			Heavy hail and high wind.	Considerable damage, character of which was not reported.	Official, U. S. Weather Bureau.
Glen Cove, N. Y., and vicinity.	11	6-8 p. m.				Hail	Electric system disabled; display window of department store destroyed.	New York Times.
Pottawattomie County, Ia.	16	12.30 p. m.	3 mi.		75,000	do.	Corn severely damaged	Official, U. S. Weather Bureau.
Detroit, Minn., and vicinity north and west of.	16					Severe wind and hail	Several buildings damaged; trees blown down; crops flattened; electric power service interrupted.	Fargo Forum (N. Dak.).
La Prairie, Ill.	18	1 a. m.	440			Hail	Slight damage	Official, U. S. Weather Bureau.

Severe local hail and wind storms, August, 1925—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
From Poweshiek County southeast through Iowa, Keokuk, Washington, Jefferson, Henry, Des Moines and Lee Counties, Iowa.	18	9 a. m.	6-10 mi.		\$2,500,000	do.	Very heavy damage over large area. Poultry and stock injured or killed; path 75 miles long.	Official, U. S. Weather Bureau.
Parts of Hancock, Henderson, McDonough and Schuyler Counties, Ill.	18	11 a. m.—noon.			510,000	Hail and wind.	Heavy crop and property damage; some poultry killed. Damage in Schuyler not included in estimate.	Do.
Chattanooga, Tenn.	18	1.40 p. m.				Thunderstorm.	Slight damage to bridge.	Do.
Murphysboro, Ill.	18	3.30 p. m.	880		11,000	Wind.	School building badly damaged; other minor damage.	Do.
Cairo, Ill., and vicinity.	18	5.20 p. m.			2,300	do.	Several hay barns blown down.	Do.
Quincy, Ill.	18	9-9.25 p. m.				do.	Gardens and trees damaged.	Do.
Pierre, S. Dak.	19	8.44-11.50 a. m.				Violent thunderstorm.	Some damage by lightning.	Do.
Keokuk and Washington Counties, Iowa.	19	9 a. m.				Hail.	Occurred in portions of the same area covered in the storm of the 18th. Slight damage added.	Do.
La Harpe, Hancock County, Ill.	19	11.30 a. m.				do.	Storm less destructive than the one in Hancock County on the 18th.	Do.
Pekin and Peoria Counties, Ill.	19	1.10 p. m.	10 mi.		20,000	Wind and hail.	Some damage by hail.	Do.
Vermilion County, Ill. (in and near).	19	3.30 p. m.	5 mi.			do.	Corn damaged by hail north of Danville.	Do.
Booneville, Ind. (near).	19				4,500	Heavy hail.	Much tobacco ruined.	Do.
North and central New York.	19	P. m.			115,000	do.	Some crops entirely destroyed; buildings, trees, and wire systems damaged. Heaviest damage at Tupper Lake, Clayville, and Herkimer.	Do.
Harrisburg, Pa., and vicinity.	19					Thunderstorm, wind and hail.	Poles blown down, obstructing traffic; corn and other crops injured by hail.	Do.
Montgomery and Henry Counties, Tenn.	19				100,000	Wind and hail.	Seven hundred acres of fine tobacco practically ruined by hail, some additional damage by wind.	Do.
Louisville and Jefferson Counties, Ky.	19					Wind.	Trees, wire systems and windows damaged.	Do.
Nashville, Tenn., and west of.	19					Thunderstorm, and wind.	One chimney and a number of trees blown down; other minor damage west of city.	Do.
Berlin, N. H.	19	Noon.			20,000	Thunderstorm.	Much damage from water.	Do.
Montgomery County, Ind. (north part of).	19	P. m.				Wind.	Property damage in Darlington and Crawfordsville considerable.	Do.
Wagoner, Okla.	20	2.15 p. m.				do.	Roof and one wall of large garage blown in.	Do.
Haskell, Okla.	20					Small tornado.	Several small buildings wrecked; tent blown down and benches carried several blocks.	Oklahoman (Oklahoma City, Okla.).
Henryetta, Okla.	20					Tornado, wind, and rain.	Several automobiles damaged.	Do.
Johnson City, Tenn.	20			1		Electrical.	Small child killed by lightning.	Official, U. S. Weather Bureau.
Veedersburg, Ind.	20				5,000	do.	A garage and barn struck by lightning and burned, killing a horse and destroying many farm implements.	Do.
Savannah, Ga.	21	4.17 p. m.				High wind.	Warehouses damaged; overhead wires broken; trees uprooted.	Do.
Thrall, Tex. (east of).	21	5.30 p. m.				Small tornado.	Two barns unroofed and several small houses blown from foundations.	Taylor Daily Express (Tex.).
Andalusia, Ala.	21			1		Electrical.	One person killed by lightning.	Official, U. S. Weather Bureau.
Blakely, Ga.	21				1,000	Thunderstorm.	Poles blown down and a few houses damaged.	Do.
Christian County, Ky.	21				25,000	Hail.	Four hundred fifty acres of tobacco damaged 25 per cent.	Do.
Echeconne, Ga.	21				200	Wind.	Two small houses damaged.	Do.
Kenton, Okla.	21					Hail.	Slight damage.	Do.
Leesburg, Ga.	21			3		Thunderstorm.	No property damage reported.	Do.
Sale City, Ga.	21			3		do.	do.	Do.
Southport, N. C.	21					Hail.	Slight damage as most crops were housed or partly matured.	Do.
Seabrook, Tex.	22	10.15 p. m.	100-400	2		Tornadoic wind.	Many camps and shacks wrecked; 10 persons injured; path 2 miles long.	Official, U. S. Weather Bureau; Shreveport Times (La.).
Fort Lupton, Colo.	23	7 p. m.				Hail.	All crops over a path 4 to 5 miles suffered.	Official, U. S. Weather Bureau.
Calipatria, Calif.	25	do.		1	100,000	Violent wind.	Warehouse and dwellings on east side of town torn from foundations; Southern Pacific station cut in half.	Los Angeles Times (Calif.).
Columbia, Ky.	25				5,000	Hail.	Much tobacco destroyed and corn injured.	Official, U. S. Weather Bureau.
Lake Michigan.	26			4		High winds.	No property damage reported.	New York Daily News.
Statesboro, Ga.	26				500	Wind and hail.	Some damage to unpicked cotton.	Official, U. S. Weather Bureau.
Walhalla, S. C. (near).	26	P. m.			700	Thunderstorm and wind.	Two barns burned and a cow killed.	Do.
Caps, Tex.	28	6 p. m.	1-2 mi.		6,000	Hail.	Severe damage to growing crops over path 3 to 4 miles long. Minor property damage.	Do.
Tampa, Fla.	28	5.10-9 p. m.				Thunderstorm and heavy rain.	Streets flooded and traffic made impossible; city and suburban streets and roads badly washed.	Do.
Miles City, Mont.	28					Wind, rain and hail.	Corn and truck gardens damaged to some extent.	Do.
Electra, Tex.	29	4 p. m.	1,760	2		Small tornado.	Small houses and derricks blown down; little loss of crops. Path 2 miles long; 2 persons injured.	Do.
Clark County, Wis.	29	do.	60-1,760		6,500	Severe squall.	Damage principally to silos and small farm buildings; 7 persons injured.	Official, U. S. Weather Bureau; Milwaukee Journal (Wis.).
Superior, Wis. and Duluth, Minn.	29	P. m.				Severe electrical.	Many trees prostrated; grounds washed. One person injured.	Milwaukee Sentinel (Wis.).
Dallas, Tex. (north of).	30	5 p. m.				Wind and rain.	Several residences damaged; 1 person injured.	Dallas Morning News.
Fort Wayne, Ind.	30			1		Wind.	Many boats on Lake Wawasee imperiled, trees uprooted; many cottages partly wrecked.	Indianapolis Times.
Baltimore, Md., and vicinity.	31			1		Thunderstorm, hail and rain.	Many telephones out of order; other property and crop damage; 5 persons injured.	Official, U. S. Weather Bureau.
Gerrardstown and Inwood sections of Berkeley County, W. Va.	31					Severe hail.	Damage principally to apple crop.	Do.